



FORM PTO/SB/08A/B (10-01)  
Substitute for PTO-1449 (Rev. 10-01)

# INFORMATION DISCLOSURE

## STATEMENT BY APPLICANT

(use as many sheets as necessary)

Attorney Docket Number

50454/B600

Application Number

09/827,882

Filing Date

April 4, 2001

Applicant(s)

Mark Buer

Group Art Unit

2137

Examiner Name

Paul E. Callahan

### U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	DOCUMENT NUMBER Number - Kind Code <sup>2</sup> (If Known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
PC		5,297,206	03-22-1994	Orton
		5,796,836	08-18-1998	Markham
		5,870,474	02-09-1999	Wasilewski et al.
		5,936,967	08-10-1999	Baldwin et al.
		5,943,338	08-24-1999	Duclose et al.
		6,111,858	08-29-2000	Greaves et al.
		6,216,167	04-10-2001	Momirov
		6,304,657 B1	10-16-2001	Yokata et al.
		6,334,190 B1	12-25-2001	Silverbrook et al.
PC		2001/0021253	09-13-2001	Furuya et al.

### FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup> (✓)
PC		WO 01/80483 A2	10-25-2001	Mark Buer et al.	

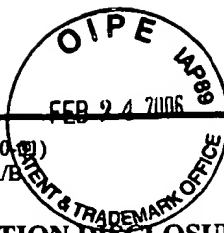
### OTHER DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
PC		SAIT, S. M., et al. "A Novel Technique for Fast Multiplication." Computers and Communications, Conference Proceedings of the 1995 IEEE Fourteenth Annual International Phoenix Conference on 28-31 March 1995, pp. 109-114.

EXAMINER SIGNATURE	<u>Paul Callahan</u>	DATE CONSIDERED	<u>5-22-06</u>
--------------------	----------------------	-----------------	----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at www.pto.gov or MPEP 901.4. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English Language Translation is attached.

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE



FORM PTO/SB/08A/B (10-01)  
Substitute for PTO-1449A/B

**INFORMATION DISCLOSURE**

**STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Attorney Docket Number**

50454/B600

**Application Number**

09/827,882

**Filing Date**

April 4, 2001

**Applicant(s)**

Mark Buer

**Group Art Unit**

2137

**Examiner Name**

Paul E. Callahan

**OTHER DOCUMENTS**

EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
PC		HAO-YUNG LO, et al. "A High-Speed Self-Timing Carry-Completion for Direct Two's Complement Multipliers." Circuits and Systems IEEE APCCAS 1998. The 1998 IEEE Asia-Pacific Conference on 24-27 Nov. 1998, pp. 643-646.
		RAGAB, A. et al. "An Efficient Message Digest Algorithm (MD) for Data Security." Electrical and Electronic Technology, TENCON. Proceedings of IEEE Region 10 International Conference on Volume 1, 19-22 Aug. 2001, pp. 191-197.
		DEEPAKUMARA, J., et al. "FPGA Implementation of MD5 Hash Algorithm." Electrical and Computer Engineering, 2001. Canadian Conference on 13-16 May 2001, vol. 2, pp. 919-924.
		International Search Report for Application No. PCT/US02/00642; search completed on October 17, 2002, The Netherlands.
		SEDGEWICK, R. "Algorithms in C - Third Edition," 1998, Addison Wesley, XP002163543, pages 573-608.
		"Secure Products VMS115", VLSI Technology, Inc., Printed in USA, Document Control: VMS115, VI, 0, Jan. 1999, pp. 1-2.
		"VMS115 Data Sheet", VLSI Technology, Inc., a subsidiary of Philips Semiconductors, Revision 2:3, Aug. 10, 1999, pp. 1-64.
		"Data Sheet 7751 Encryption Processor", Network Security Processors, Jun. 1999, pp. 1-84.
		SENIE, D., "NAT Friendly Application Design Guidelines," Amaranth Networks, Inc., NAT Working Group, Internet -Draft, September 1999, pp. 1-7.
		FLOYD, SALLY, et al., "Random Early Detection Gateways for Congestion Avoidance", Lawrence Berkeley Laboratory, University of California, IEEE/ACM Transactions on Networking, Aug. 1993, pp. 1-32.
		EGEVANG, K., et al., "The IP Network Address Translator (NAT)", Network Working Group, May 1994, pp. 1-10.
		PALL, G. S., et al., "Microsoft Point-To-Point Encryption (MPPE) Protocol", Microsoft Corporation, Network Working Group, Internet Draft, Oct. 1999, pp. 1-12.
		DEUTSCH, P., "DEFLATE Compressed Data Format Specification Version 1.3", Aladdin Enterprises, Network Working Group, May 1996, pp. 1-17.
PC		KENT, S., "IP Authentication Header", Network Working Group, Nov. 1998, pp. 1-22.

EXAMINER  
SIGNATURE

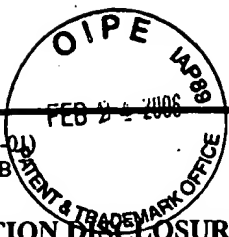
Paul Callahan

DATE  
CONSIDERED

5-22-06

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.pto.gov](http://www.pto.gov) or MPEP 901.4. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English Language Translation is attached.

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE



FORM PTO/SB/08A/B (10-01)  
Substitute for PTO-1449A/B

**INFORMATION DISCLOSURE**

**STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Attorney Docket Number**

**50454/B600**

**Application Number**

**09/827,882**

**Filing Date**

**April 4, 2001**

**Applicant(s)**

**Mark Buer**

**Group Art Unit**

**2137**

**Examiner Name**

**Paul E. Callahan**

**OTHER DOCUMENTS**

EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
PC		KENT, S., et al., "IP Encapsulating Security Payload (ESP)", Network Working Group, Nov. 1998, pp. 1-22.
		MAUGHAN, D., et al., "Internet Security Association and Key Management Protocol (ISAKMP)", Network Working Group, Nov. 1998, pp. 1-20.
		HARKINS, D., et al., "The Internet Key Exchange (IKE)", Cisco Systems, Network Working Group, Nov. 1998, pp. 1-12.
		SRISURESH, P., "Security Model with Tunnel-mode Ipsec for NAT Domains", Lucent Technologies, Network Working Group, Oct. 1999, pp. 1-11.
		SHENKER, S., "Specification of Guaranteed Quality of Service", Network Working Group, Sep. 1997, pp. 1-20.
		SRISURESH, P., et al., "IP Network Address Translator (NAT) Terminology and Considerations", Lucent Technologies, Network Working Group, Aug. 1999, pp. 1-30.
		KENT, S., et al., "Security Architecture for the Internet Protocol", Network Working Group, Nov. 1998, pp. 1-66.
		"Compression for Broadband Data Communications", BlueSteel Networks, Inc., Sep. 8, 1999, pp. 1-9.
		"Securing and Accelerating e-Commerce Transactions", BlueSteel Networks, Inc., Revision 2.0, Oct. 20, 1999, pp. 1-7.
		"Securing Broadband Communications", BlueSteel Networks, Inc., Sep. 8, 1999, pp. 1-10.
		Analog Devices: "ADSP2141 SafeNetDPS User's Manual, Revision 6", Analog Devices Technical Specifications, Mar. 2000, XP002163401, 87 Pages.
		C. MADSON, R. GLENN: "RFC 2403- The Use of HMAC-MD5-96 within ESP and AH", IETF Request for Comments, Nov. 1998, XP002163402, Retrieved from Internet on Mar. 20, 2001, <a href="http://www.faqs.org/rfcs/rfc2403.html">http://www.faqs.org/rfcs/rfc2403.html</a> , 5 Pages.
		S. KENT, R. ATKINSON: "RFC 2406-IP Encapsulating Security Payload (ESP)" IETF Request for Comments, Nov. 1998, XP002163400, Retrieved from the Internet on Mar. 20, 2001, <a href="http://www.faqs.org/rfcs/rfc2406.html">http://www.faqs.org/rfcs/rfc2406.html</a> , 5 Pages.
PC		KEROMYTIS, et al., "Implementing IPsec", Global Telecommunications Conference (Globecom), IEEE, Nov. 3, 1997, pp. 1948-1952.

**EXAMINER SIGNATURE**

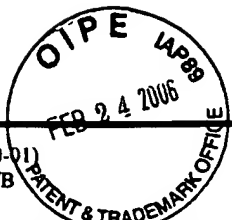
*Paul Callahan*

**DATE CONSIDERED**

*5-22-06*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.pto.gov](http://www.pto.gov) or MPEP 901.4. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English Language Translation is attached.

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE



FORM PTO/SB/08A/B (10-01)  
Substitute for PTO-1449A/B

**INFORMATION DISCLOSURE**

**STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Attorney Docket Number**

**50454/B600**

**Application Number**

**09/827,882**

**Filing Date**

**April 4, 2001**

**Applicant(s)**

**Mark Buer**

**Group Art Unit**

**2137**

**Examiner Name**

**Paul E. Callahan**

**OTHER DOCUMENTS**

EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
PC		PIERSON, et al., "Context-Agile Encryption for High Speed Communication Networks", Computer Communications Review, Association for Computing Machinery, vol. 29, No. 1, Jan. 1999, pp. 35-49.
		SHOLANDER, et al., "The Effect of Algorithm-Agile Encryption on ATM Quality of Service", Global Telecommunications Conference (Globecom), IEEE, Nov. 3, 1997, pp. 470-474.
		SMIRNI, et al., "Evaluation of Multiprocessor Allocation Policies", Technical Report, Vanderbilt University, Online, 1993, pp. 1-21.
		TARMAN, et al., "Algorithm-Agile Encryption in ATM Networks", IEEE Computer, Sep. 1998, vol. 31, No. 1, pp. 57-64.
		WASSAL, et al., "A VLSI Architecture for ATM Algorithm-Agile Encryption", Proceedings Ninth Great Lakes Symposium on VLSI, Mar. 4-6, 1999, pp. 325-328.
		Analog Devices: "Analog Devices and IRE Announce First DSP-Based Internet Security System-On-A-Chip", Analog Devices Press Release, Online, Jan. 19, 1999, pp. 1-3. <a href="http://content.analog.com/pressrelease/prdisplay/0,1622,16,00.html">http://content.analog.com/pressrelease/prdisplay/0,1622,16,00.html</a> .
PC		3Com: "3Com Launces New Era of Network Connectivity", 3Com Press Release, Jun. 14, 1999, pp. 1-3.

VSJ PAS666953.1-\*02/21/06 11:49 AM

EXAMINER SIGNATURE	<i>Paul Callahan</i>	DATE CONSIDERED	5-22-06
<small>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at <a href="http://www.pto.gov">www.pto.gov</a> or MPEP 901.4. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English Language Translation is attached.</small>			

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

SDB/vsj

Sheet 4 of 4